GPS; And how it works.

Global Positioning System satellites works as a transmitter that transmits signals to equipment on the ground. GPS receives satellite signals; they do not transmit. GPS has a clear view of the sky, so they are used only outdoors and they often do not perform well within forested areas or near tall buildings. GPS operations depend on a very accurate time, which is provided by atomic clock .Naval Observatory. Each GPS satellite has atomic clocks on board.

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| Each satellite transmits different data that shows different time and settings, also All GPS satellites synchronize different operations so that these signals are transmitted at the same instant. Signals that move as the speed of light , and arrive at a GPS slightly at different times because usually satellites are far away from each other . it can calculate its position in three dimensions.  [Abdullah Fratickh]…. |
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*-Reference : http://www.nasm.si.edu/gps/work.html*